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PTO/SB/05 (08-00)

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UTILITY
PATENT APPLICATION
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

CON1350-011B Attorney Docket No. Brown et al. First Inventor

SYSTEM AND METHOD FOR STATEMENT PRESENTA

Express Mail Label No. EL622262565US Assistant Commissioner f

APPLICATION ELEMENTS ADDRESS TO: **Box Patent Application** Washington, DC 20231 See MPEP chapter 600 concerning utility patent application contents.

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1.	Fee Transmittal Form (e.g., PTO/SB/17) (Submit an onginal and a duplicate for fee processing)
2.	Applicant claims small entity status. See 37 CFR 1.27.
3.	Specification [Total Pages 40] [Preferred arrangement set forth below)

- Descriptive title of the invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention - Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4.	Drawing(s) (35 U.S.C. 113) [Total Sheets 11]
4. 🔼	Drawing(s) (35 U.S.C. 115) [Total Glicets

[Total Pages 3 5. Oath or Declaration

Newly executed (original or copy) unsigned Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 17 completed)

	DELETION OF INVENTOR(S)
'	Signed statement attached deleting inventor(s
	named in the prior application, see 37 CFR
	1.63(d)(2) and 1.33(b).

Application Data Sheet. See 37 CFR 1.76

7.		CD-ROM or CD-R in duplicate, large table or
		Computer Program (Appendix)
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(if applicable, all necessary)

Computer Readable Form (CRF)

Specification Sequence Listing on.	
, CD-ROM or CD-R (2 copies);	or
ii paper	

	C L	Statements vernying identity o	l above copies
ı	A	CCOMPANYING APPLICA	TION PARTS
	9.	Assignment Papers (cover she 37 CFR 3.73(b) Statement (when there is an assignee)	
	11.	English Translation Document	
	12.	Information Disclosure Statement (IDS)/PTO-1449	Copies of IDS Citations
	13	Preliminary Amendment	
	14.	Return Receipt Postcard (MP (Should be specifically itemize	ea)
	15	Certified Copy of Priority Doc (if foreign priority is claimed)	ument(s)
	16.	Other	

17. If a CONTINUING APPLICATION, check appropriate box, and supply the re-	quisite information below and in a preliminary amendment
or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP)	of prior application No

Group/ Art Unit: Prior application information: Examiner For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 6b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

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APPLICATION FOR UNITED STATES LETTERS PATENT FOR

SYSTEM AND METHOD FOR STATEMENT PRESENTATION

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SYSTEM AND METHOD FOR STATEMENT PRESENTATION

Inventor: Matthew Brown Marc Jazvac

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates generally to production of billing statements.

Particularly, the present invention relates the production of billing statements for different services and the production of a single billing statement for telephone, cable, and data services.

Description of Related Art

Service providers such as local telephone service providers, long distance telephone service providers, and cable television service providers typically produce and send their customers monthly billing statements that reflect charges based on transactions such as telephone calls, pay per view requests, etc. that occurred during the month. Typically, separate statements are produced and sent for each service because each service is subject to different messages, notices, inserts, taxes, collection procedures, etc. Furthermore, there are often physical limitations with respect to the printed bill such that all of the information the service provider would like to print on the bill cannot be accommodated. Current statement production systems impose further limitations by providing few formatting and layout options to service providers. Service providers today need flexibility in defining the format and layout options for billing

statements and further need the ability to generate one billing statement for accounts having any combination of telephone, cable, and/or data services.

SUMMARY OF THE INVENTION

The present invention is a system and method for producing (e.g., printing or displaying) statements that have charges for one or more service categories. The present invention enables a service provider to define which services appear on what statements for any given customer. The present invention is directed to Statement Presentation which refers to the collating, grouping, summarizing, and describing of transactions for a statement. The present invention allows a service provider to group, summarize, and order like statement transactions for a particular service category (e.g., telephone service, cable service, and data service). Statement transactions are defined generally to be different charges for various activities or tasks such as payments and adjustments, recurring service charges, one time charges for installations, deposits, etc., usage of telephony, cable, or data services, taxes, etc.) for one or more occurrences. An occurrence on a statement relates to a telephone line that has an associated telephone number or an equipment outlet that has an associated equipment outlet number (preferably, 5 digits). The equipment outlet number defines which addressable services are associated with which equipment and are assigned to a particular outlet.

The present invention subdivides statement transactions into several layers for presentation on a statement. At the highest layer are four Segments: Summary, Itemization, Usage Detail, and Tax. These Segments are subdivided into User-Defined

Sections, which are groups of a lower presentation layer. These lower presentation layers vary by the Segment type. The presentation layer for the Summary Segment is the Summary Line. The presentation layer for the Itemization and Usage Detail Segments consists of presentation Occurrences, which are subdivided by Statement Presentation Codes. The presentation layer for the Tax Segment is the Tax Statement Line.

The present invention uses Statement Presentation Codes to determine how transactions are grouped and produced (e.g., printed or displayed) on a statement.

Services, pay per view (PPV) events, payments and adjustments, recurring service charges, one-time charges, usage, etc. are assigned a Statement Presentation Code.

Each Statement Presentation Code has a group of attributes that defines how information related to the code may be printed or viewed. In a preferred embodiment of the present invention, the Statement Presentation Code attributes include a Section Code that determines where on the statement to print the Statement Presentation Code, a Summary Line to which transaction amounts are added, and an indicator to determine whether the Statement Presentation Code should be sorted within an occurrence.

The Statement Presentation Sections of the present invention provide a means for grouping Statement Presentation Codes. Certain transactions, such as payments, that are not specific to a Category of Service may be grouped into one or more Section Codes as well. Definition of Sections and Statement Presentation Codes in accordance with the present invention allow a service provider to group transactions by category, group some transactions by category and others in sections of blended or no

categories, and group 'cross category' service packages in one section while grouping category specific transactions in their own sections.

Another feature of the present invention is the ability to produce summaries (e.g., by printing or displaying) of various services that a service provider may offer such as basic, non-basic, long distance, and calling card telephony services and basic, expanded basic, premium channel, and pay per view cable services. The Statement Presentation Codes of the present invention support the grouping and summarizing of the various services. Because of the flexibility in producing statements, a service provider may offer its customers the option of deciding which services are billed on a particular statement. Customers may choose to have all services billed on one statement and other services billed on a different statement.

Another feature of the present invention is the ability to produce statement export files that may be used by a print vendor for printing and sending statements to a service provider's customers. In accordance with a preferred embodiment of the present invention a single, statement export file may be produced for telephone, cable, and data services or any combination of the services on one bill.

BRIEF DESCRIPTION OF THE DRAWING(S)

Fig. 1 is a block diagram of a statement presentation in accordance with a preferred embodiment of the present invention; and

Figs. 2-32 are examples of screens in accordance with a preferred embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT(S)

Referring to Fig. 1, the conceptual layout of a billing statement in accordance with a preferred embodiment of the present invention is shown. In accordance with the present invention, statement transactions are subdivided into several layers for presentation on a statement. The highest layer—Layer 1 100—is divided into four segments: Summary 104, Itemization 108, Usage Detail 122, and Tax 136. These segments are subdivided into user-defined sections 106, 110, 112, 124, 126, 138 that make up the lower layers 102 of the statement presentation. The user-defined sections vary by the segment type and are comprised of a type of line. The user-defined section for the Summary segment 104 is the Summary Line section 106. The user-defined section for the Itemization 108 and Usage Detail 122 segments is Occurrence Line 110, 112, 124, 126. Each Occurrence Line 110, 112, 124, 126 is further subdivided by Statement Presentation Codes 114, 116, 118, 120, 128, 130, 132, 134. The user-defined section for the Tax 136 segment is Tax Statement Line 138.

Preferably, the Statement Presentation Codes 114, 116, 118, 120, 128, 130, 132, 134 dictate how transactions are grouped and presented in each segment on the statement. Preferably, services, pay per view events, payments and adjustments, recurring service charges, one-time charges, usage, etc. are assigned a Statement Presentation Code. The attributes of Statement Presentation Codes include, among other things:

Section Code in which to print the Statement Presentation Code; Summary Line to add the amount of the transactions to; and Indication if the Statement Presentation Code should be sorted within the Service Occurrence.

Statement Presentation sections provide a means to group together Statement Presentation Codes. The codes allow transactions to be grouped by category of service, or combinations of categories. Certain transactions, such as payments, that are not specific to a category of service may be grouped into one or more section codes as well. Use and set up of Sections and Statement Presentation Codes allow a service provider to:

Group all transactions by category;

Group some transactions by category and others in sections of blended or no categories; and

Group "cross category" service packages in one section, while grouping category specific transactions in their own sections.

Preferably, transactions may be separated by a Carrier Code. Services that can be processed for a carrier may refer to Statement Presentation Codes that in turn refer to one or more sections unique to the Carrier Code. Usage Attributes (including Statement Presentation Code) are defined by a carrier, so referring to Statement Presentation Codes unique to the Carrier is easy. Preferably, service codes are not defined by a carrier. Therefore, the set up and use of services unique to a Carrier may be dictated by operational methods and procedures.

A statement in accordance with the present invention may include two or more Occurrences (telephone lines or equipment outlets) that have services that refer to the same Statement Presentation Codes (e.g., recurring charges). In some instances, it

may be desirable to present all transactions for each telephone line separately. The present invention accommodates this requirement by sorting/processing the transactions by occurrence (telephone line or equipment outlet), prior to sorting them by Statement Presentation Code. However, if some or all of the transactions for all telephone lines are to be combined and presented by Statement Presentation Code, the transactions may be sorted by Statement Presentation Code, and then by telephone line within the Statement Presentation Code. The present invention therefore, supports various methods of sorting. As a result of the flexibility in grouping services, a service provider may allow its customers to decide whether all services are billed on one statement or on multiple statements.

Statement Attribute

Statement Attribute Codes may be assigned to services, adjustment codes, and pay per view (PPV) events. The Statement Attribute Code defines what services are grouped together and in some cases, how the statement is paid. For example, each statement produced may have a statement attribute. If that statement attribute is assigned a method of payment of direct debit, then the amount of that statement may be automatically drafted. Referring to Fig. 2, the System Parameter Maintenance, Statement Presentation screen presents a service provider with options for defining statement attributes. At the screen in Fig. 2, the user may type '1' in the '?' column next to Statement Attributes and Press ENTER to begin the process of defining statement attributes.

Referring to Fig. 3, the Statement Attribute Code Maintenance screen presents a service provider with options for completing the process of defining statement attributes.

The user may type '2' to change a statement attribute code, type '3' to copy a statement attribute code, or type '4' to delete a statement attribute code. The user also has the option of selecting F9 to add a new statement attribute code. Upon selecting F9, the user may be referred to the Statement Attribute Code Maintenance 1 screen in Fig. 4. Referring to Fig. 4, the user may type up to a 3-character code in the STATEMENT ATTRIBUTE CODE field and a description up to 35 characters in the STATEMENT ATTRIBUTE DESC field. Next, the user may type a value for the STATEMENT THRESHOLD NUMBER OF LINES field. This value is the maximum number of lines that will print per statement and per page. The user may type one of the following in the INCLUDE THE FOLLOWING IN LINE COUNT fields for Summary, Taxes, Itemization, Usage Detail, Billing Message, and Statement Text:

'Y' to include this particular statement component in the threshold number of lines count per statement and per page; or

'N' to not include this particular statement component in the threshold number of lines count per statement and per page.

Preferably, if Billing Message and Statement Text are not included in the number of lines count and a threshold determined at print time has already been reached, the billing messages and statement text are not printed on the statement. The user may type one of the following in the OUTPUT TAXES BY SERVICE CATEGORY field:

'Y' to print taxes for all services as individual line items on the statement; or 'N' to print taxes for all services as one line item on the statement.

The user may type one of the following in the INCLUDE MEMO ACCOUNTS field:

'Y' to produce a statement if the amount of the statement meets the requirements for sending a statement; or

'N' to indicate that a statement should not be sent, regardless of the A/R balance.

The user may type one of the following in the CHECK DIGIT ROUTINE field:

'A' for deviation of modulus 10; or

'X' for standard modulus 10.

The user may type one of the following in the LOCK BOX SCAN LINE ROUTINE field:

'A' = 6-digit amount and 5-character company identifier;

'C' = 7-digit amount and 4-character company identifier; or

'X' = 7-digit amount and 5-character company identifier.

Preferably, the formats have the following characteristics.

Table 1

A Format	C Format	X Format	All
<u>Length</u>	Length	<u>Length</u>	Format Fields
5	4	5	Company Identifier
9	9	9	Cust. Acct#
1	1	1	Acct# Check Digit
1	1	1	Amt Check Digit
6	7	7	Amount \$s
Positions 2-29	Positions 3-30	Positions 1-29	
within the Scan	within the Scan	within the Scan	
Line field.	Line field.	Line field.	

The user may type a code in the PREVIOUS BALANCE STateMenT

PRESENTATION CODE field. The user has the option of assigning a Statement

Presentation Code to previous balances to indicate where the previous balance will be grouped and displayed on a statement. The user may type one of the following in the BUCKET NUMBER TO START FROM WHEN CALCULATING PAST DUE AMOUNT field:

Table 2

'1' = Current	'3' = 31-60	'5' = 91-120
'2' = 01-30	'4' = 61-90	'6' = 121+

The amount owed in the bucket typed in this field is totaled with the Accounts

Receivable (A/R) from subsequent buckets. This total is compared to an amount in the

LATE FEE MINIMUM CHARGE field located on a Late Fee Scheme Maintenance

screen. If the calculated total is greater, then the difference between the two amounts is

displayed in the LATE BALANCE AMOUNT field in record type 'S' of a statement tape

file.

Preferably, the user may page down to display additional screens. The following actions pertain to customers with a credit balance (or A/R balance < 0). Referring to Fig. 5, the Statement Attribute Maintenance 2 screen provides additional options for defining statement attributes. The user may type one of the following in the PRINT IF THE CUSTOMER'S STATUS INDICATES TO PRINT A CREDIT BILL field:

'Y' to print a credit statement if the customer's status indicates that credit statements should be printed; or

'N' to not print a credit statement regardless of what the customer's status indicates for credit statements.

If 'Y' is answered to this statement, then a credit message may be typed on the message line in this category. If 'N' is answered, then the credit message field may be left blank. Next, the user may type one of the following in the PRINT A FINAL BILL REGARDLESS OF THE CUSTOMER'S STATUS field:

'Y' to print a final credit bill for a customer whose status indicates that credit balance statements should not be sent; or

'N' to use the customer's status code to indicate whether a credit balance statement should be sent.

If 'Y' is answered to this statement, then the user may type a message up to 37 characters in the credit MESSAGE field. For example, the message may read "Credit Balance - Do Not Pay." If 'N' is answered, then this field may be left blank.

The following actions pertain to customers with a debit balance (or A/R balance ≥ 0). The user may type a dollar amount in the DO NOT PRINT STATEMENTS WITH A DEBIT BALANCE LESS THAN field. Customers with an A/R balance less than this amount but greater than zero, preferably, will not have statements produced unless they have other than normal transactions that indicate printing a statement. For example, this field may be set so that the system does not print statements for customers who owe between 0.00 and 5.00 dollars.

The user may type one of the following in the PRINT A FINAL BILL, REGARDLESS OF THE DEBIT BALANCE field:

'Y' to disregard debit restrictions set up previously and print a final debit balance statement; or

'N' to follow the requirements set up previously.

The following actions pertain to customers who do not meet the requirements set up previously to have a statement produced. Statements may be sent if other than normal transactions occurred. Other than normal transactions may include PPV charges, prorates from work order transactions, rate increases, and adjustment codes that may be flagged in other parts of the system as other than normal.

The user may type one of the following in the SHOULD BE PRODUCED FOR ALL CUSTOMERS field:

'Y' to produce a statement for all customers, regardless of balance, if they have an other than normal transaction; or

'N' to not produce a statement and follow the guidelines set forth previously.

For example, if debit bills are not printed unless the balance owed is greater than \$5, then a customer who has a PPV transaction and owes a balance of \$3 will have a statement produced if 'Y' is the response to the question. Preferably, if the response is 'N,' then a statement is not produced. If the same customer had a balance of \$5.01, a statement is produced regardless of this field because debit balance statements are printed when greater than or equal to \$5.

The user may type one of the following in the SHOULD BE PRODUCED FOR NON-MONTHLY BILL MODE CUSTOMERS ONLY field:

'Y' to produce a statement for non-monthly bill mode customers, regardless of balance, if they have an other than normal transaction; or

'N' to not produce a statement and follow the guidelines set forth in the earlier steps.

The user may type a message up to 52 characters in the MESSAGE field. The message prints on statements when other than normal transactions occur and when the flags set previously indicate to produce statements for these customers.

Preferably, the user may page down to display additional screens. Referring to Fig. 6, in the Statement Attribute Maintenance 3 screen, the user may type a message up to 35 characters in each of the PREVIOUS MONTH'S BALANCE fields for a

message that is to display for the previous month's balance. For example, the FIRST STATEMENT might have "Starting Balance" or "Opening Balance." The message for SUBSEQUENT STATEMENTS might be "Previous Balance" or "Amount of Last Bill." The user may type a message up to 35 characters in the PAYMENTS fields. These messages describe the type of payment. The FULL PAYMENT field indicates a payment made in full. The message "Thank you for your prompt payment" may be used. The PARTIAL PAYMENT field indicates a partial payment. The message "Payment Received" may be used. The DEPOSIT PAYMENT field prints for payments applied toward deposits.

The user may type a description up to 35 characters in the SERVICES

WITHOUT A DESCRIPTION field if a service without a description is encountered. The user may type up to 35 characters in the MERGED PRORATE DESCRIPTION fields.

These messages describe the prorate. The FIRST STATEMENT field indicates prorated charges for the first statement a customer receives. The SUBSEQUENT STATEMENTS field indicates the prorate description that displays on any statements subsequent to the first statement in which prorates occur.

Preferably, the user may page down to display additional screens. Referring to Fig. 7, in the Statement Attribute Maintenance 4 screen, the user may type a message up to 60 characters in the MESSAGE TO PRINT IF STATEMENTS ARE SENT EACH MONTH field to cause statements to be produced for bank draft (direct debit) customers. This message displays between the standard billing message and the statement detail. The user may also leave this field blank so statements are not produced for bank draft (direct debit) customers. The user may type a message up to

60 characters in the PRE-NOTE STATUS field. If the method of payment is set up for a customer with the prenote flag set to 'Y,' the prenote message prints on the statement instead of the "Do Not Send Payment" message.

The user may type a message up to 60 characters in the MESSAGE TO PRINT IF STATEMENTS ARE NOT SENT MONTHLY AND AN OTHER THAN NORMAL TRANSACTION OCCURS field to produce a statement if an other-than-normal transaction occurs for bank draft (direct debit) customers. The user may also leave this field blank so a statement is not produced even if an other-than-normal transaction occurs for bank draft (direct debit) customers.

The user may type the maximum dollar amount a customer can be drafted in the MAXIMUM AMOUNT ALLOWED field. If a customer's balance exceeds this amount, then that customer is not drafted and a statement is sent containing the message that is specified for this condition. The user may type a message up to 60 characters in the MESSAGE TO PRINT IF MAXIMUM AMOUNT IS EXCEEDED field. The user may type the minimum dollar amount for which a customer can be drafted in the MINIMUM AMOUNT ALLOWED field. If a customer's balance is less than this amount, then that customer is not drafted and a statement is sent containing the message that is specified for this condition. The user may type the MESSAGE TO PRINT IF MINIMUM AMOUNT IS NOT MET. If the maximum or minimum conditions are met, preferably, a billing program prints a statement for the customer with the message indicated, regardless of the regular bank draft or change bank draft messages. Preferably, the maximum/minimum message prints in the same place as the standard bank draft message, between the standard billing message and the statement detail.

Statement Attribute Assignment

A statement attribute may be assigned to a service category and/or a combination of service categories. For example, a service category combination consisting of cable and telephone may be assigned to the same statement attribute so that they appear together on the same statement. The combinations may be comprised from the following service categories:

C=Cable

D=High Speed Data

L=Calling Cards

S=Special Circuits

T=Telephone

Referring to Fig. 8, the Statement Attribute Assignment Maintenance screen allows a service provider to assign service categories to statement attributes. The user may type a code in the STateMenT ATTRibute code field to assign to the Service Category Combo as listed.

Statement Presentation Code

A Statement Presentation Code may be assigned to services, adjustments, and PPV events to indicate where they should be grouped on a statement. The Statement Presentation Code may be up to 3 characters, including spaces. This code defines how information is displayed on the statement and a ledger. Referring to Fig. 9, the Statement Presentation Code Maintenance screen provides options for a service provider to define Statement Presentation Codes. Preferably, the user has the following options:

'2' to change a statement presentation code;

'3' to copy a statement presentation code;

'4' to delete a statement presentation code;

'P' to define paragraph details; and

'F9' to add a Statement Presentation Code.

If the user elects to add a code, the user may type a 3-character code in the PRESENTATION CODE field. Codes may be based on letters, digits, or a combination of letters and digits.

Referring to Fig. 10, the Statement Presentation Code screen provides options so a service provider can further define paragraph details for a statement. The user may type a message up to 60-characters for a HEADER. This header prints on the statement. The user may type a message up to 60-characters for a SUBTOTAL. This subtotal prints on the statement. The user may type a message up to 60-characters for a FOOTER. This footer prints on the statement.

The user may further specify a section code in the SECTION CODE field. The attributes defined for this Statement Presentation Code print in the section that is assigned using this field. The user may type a value for the SUMMARY LINE field. The user may further specify a sorting method by typing one of the following in the SORT WITHIN OCCURRENCE field:

'Y' to sort by occurrence; or

'N' to define what service category and sequence number to sort by.

To print all transactions for each occurrence separately on a statement, the user may type 'Y' to sort by occurrence. To print transactions for all occurrences combined, the

user may type 'N' to override sorting by occurrence. If 'N' was typed, then the user may type the service category and sequence to sort by in the IF NO, SORT OCCURRENCE CTG/SEQ# fields respectively.

Next, the user may type one of the following in the PRINT USAGE DETAIL FLAG field:

'Y' to print telephone usage details; or

'N' to not print telephone usage details.

The user may type one of the following in the DISCOUNT/RETAIL FOR USAGE field:

'D' to print the discounted rate for that service on the statement: or

'R' to print the retail rate for that service on the statement.

In the STateMenT PRESENTATION FOR PRORATES field, the user may type the Statement Presentation Code under which the prorates of the current presentation code may list. For example, six services in two different presentation codes may be prorated. The user may define both groups to point to Statement Presentation code 300=Prorated Programming. The description associated with presentation code 300 displays on the statement and ledger. The user may type a font code to assign to the HEADER portion of the statement, the DETAIL portion of the statement, and the FOOTER portion of the statement. The user may specify the offset number of spaces from the left to apply to DESCRIPTIONS. This value defines the indenting to be used to print descriptions on the statement. The user may specify the number of lines to skip BEFORE HEADER and the offset number of spaces from the right to apply to AMOUNTS. This value defines the indenting to be used to print amounts on the statement. Finally, the user may type the number of lines to skip AFTER FOOTER.

M-Matrix	The 3-line BILLING DESCRIPTION from the Matrix Master.	Two Pay Package. A monthly cable savings of \$2.90.		
P-Paragraph The 3 CHAR description from the Rate Master for all services in the group prints between the intro and exit lines.		Monthly service: BAS, HBO, SHO We hope you enjoy your service.		
S-Service	The SERVICE NAME description from the Rate Master. Individual rates are displayed next to each service.	Basic \$19.95 HBO \$9.50 Showtime 9.50		
Q-Method	The SHORT NAME description from the Rate Master for all services in the group prints between the intro and exit lines.	Monthly service: \$32.95 Basic, HBO, Showtime We hope you enjoy your service.		
R-Method	The SERVICE NAME description from the Rate Master and any auxiliaries coded to merge their descriptions print between the intro and/or exit lines, one service per line. Three discount summary lines print if discounts apply; one alternate summary line prints if no discounting applies.	Your Monthly service includes: Basic HBO Showtime List Price of Services Package Discount You Pay Only Your Monthly service includes: Basic HBO Showtime Total Price		

The Ledger Display preferably has the following information.

Table 4

Bill Description	Fields Used to Display on Ledger	EXAMPLE
G-Grouping	All items in that group are added into one line item and print the 'Presentation Description' defined on the ledger.	Basic Services \$26.50 Pay Service \$18.00 NOTE: All basic services are grouped together and all pay services are grouped together.
M-Matrix	First line of the BILLING DESCRIPTION from the Matrix Master.	Two Pay Package or Monthly Service

P-Paragraph	First line of the BILLING	Two Day Dookses
i -i alagiapii		Two Pay Package
	DESCRIPTION from the	or
	Matrix Master.	Monthly Service
S-Service	First line of the SERVICE	Basic
	NAME description from the	HBO
	Rate Master. Individual	Showtime \$9.50
	rates are displayed next to	
	each service.	
Q-Method	The PRESENTATION	Two Pay Package
	CODE description to display	or
	in the ledger unless an 'M'	Monthly Service
	is typed in position 50 of the	,
	'98•BILL' Control File. In	
	that case, the 1st line of the	
	BILLING DESCRIPTION	
	from the Matrix Master	
	displays.	
R-Method	The PRESENTATION	Two Pay Package
	CODE description to display	or
	in the ledger unless an 'M'	Monthly Service
	is typed in position 50 of the	Worlding Scratce
	'98•BILL' Control File. In	
	that case, the 1st line of the	
	BILLING DESCRIPTION	
1	from the Matrix Master	
	displays.	

Next, the user may specify one of the following in the PRINT ZERO RATED PRIMARY SERVICES field:

'Y' to print the primary service selected even if it has a zero rate; or

'N' not to print the primary service if it has a zero rate.

The user may type one of the following in the ITEMIZE ADDITIONAL OUTLET CHARGES? field:

'Y' to itemize the additional outlet charges. The statement indicates the charge for additional outlets and the number of additional outlets; or 'N' not to itemize the additional outlet charges.

If 'Y' was typed, then the following fields are completed:

The user may type one of the following in the PRINT ZERO RATED

ADDITIONAL OUTLET COUNTS field:

'Y' to itemize the additional outlets even if they are free; or

'N' to not print the number of additional outlets at a free rate.

The user may type one of the following in the PRINT ADDITIONAL RATES FOR SERVICES field:

'Y' to include additional outlet rates for premium services; or

'N' to not print additional outlet rates for premium services.

For example, if the flag in the PRINT ADDITIONAL RATES FOR SERVICES is 'Y,' then the following type of description prints:

Your Monthly Service Includes:

Basic @ 11.73 1 Additional @ 2.00

CPS @ 10.77 1 Additional @ 2.00

Enjoy Your Service

Total

26.50

If the flag in PRINT ADDITIONAL RATES FOR SERVICES is 'N,' then the following type of description prints:

Your Monthly Service Includes:

Basic @ 11.73, CPS @ 10.77

Enjoy Your Service

Total

26.50

Preferably, if this flag is 'N' and the customer has additional occurrences of services, then the service dollars listed in the paragraph will not add up to the total as additional occurrences are not listed.

The user may specify one of the following in the INCLUDE A LA CARTE RATES IN THE PARAGRAPH field:

'Y' to print the rates from the rate master for the service; or

'N' to not print the rates from the rate master.

If 'Y' was typed, then the user may type a character in an INSERTION CHARACTER

TO USE TO JOIN THE RATE TO THE SHORT DESCRIPTION field. For example, '@'
may be used.

The user may type one of the following in the PRINT SUMMARY LINES AFTER
THE PARAGRAPH EXIT LINE? field:

'Y' to print the summary lines typed for this group after the exit line; or

'N' to not print the summary lines for this group after the exit line.

Preferably, the user may page down to display additional screens. Referring to Fig. 12, the Statement Presentation Code Maintenance screen 2 provides a service provider with additional options for defining and maintaining Statement Presentation Codes. The user may type a value the NUMBER OF MATRIX DESCRIPTION LINES TO PRINT field. The matrix description is a maximum of 3 lines. The user may type a description up to 35 characters in the INTRO LINE field to print as an introduction line to the services listing. The user may type a description up to 35 characters in the EXIT LINE field to print as the exit line to the services listing. The user may type a value in the SUMMARY LINES TO PRINT AFTER THE PARAGRAPH EXIT LINE field. The user

may type a description up to 35 characters to describe the total of service a la carte pricing. For example, the description may be "List Price of Services." The user may type a description up to 35 characters to describe the discount the customer is receiving because of packaging. For example, the description may be "Discount." The user may type a description up to 35 characters to describe the amount charged for the services listed in the paragraph. For example, the description may be "You Pay Only" or "Net Price." The user may type a description up to 35 characters in the ALTERNATE SUMMARY LINE IF NO APPLICABLE DISCOUNT field. This summary line prints instead of the 3 summary lines if there is no discount. The alternate description in this field is shown instead. For example, the alternate description may be Total Price.

Preferably, the user may page down to display additional screens. Referring to Fig. 13, the Statement Presentation Code Maintenance 3 screen provides a service provider with additional options for defining and maintaining Statement Presentation Codes. For ADDITIONAL OUTLET DESCRIPTIONS FOR PREMIUM SERVICES, the user may type a description up to 10 characters in the PARAGRAPH field to print within the paragraph for the premium additional description. For example, the description may be "ADDTL @." The user may type a description up to 20 characters in the DETAIL field to print for additional premium services outside the paragraph. For example, the description may be "ADDITIONAL OUTLETS @." For ADDITIONAL OUTLET DESCRIPTIONS FOR AUXILIARY SERVICES, the user may type a description up to 10 characters in the PARAGRAPH field to print within the paragraph for the auxiliary additional description. For example, the description may be "ADDTL @." The user may type a description up to 20 characters in the DETAIL field to print for additional premium

services outside the paragraph. For example, the description may be "ADDITIONAL OUTLETS @."

Statement Font Codes

As a reference for print vendors that print billing statements, font codes may be set up and assigned to Statement Section Codes and Statement Occurrence Lines so the print vendor knows what font attributes to apply to those areas of the statement. For example, Section Code 101 may be used for defining how telephone services print on a statement. To print with bold and italics font attributes, the font code BI may be assigned to bold and italics in the font code description. After supplying the print vendor with a cross-referenced list of the font codes and their definitions, whenever the print vendor encounters the BI font code, the bold and italic font attributes are applied to that section.

Referring to Fig. 14, the Statement Font Code Maintenance screen provides options for defining and maintaining font codes. Preferably, the following options are available. The user may type '4' to delete a statement presentation code and press [F9] to add a new Statement Presentation Code. First, the user may type a 2-character FONT CODE and up to 32-characters for a DESCRIPTION.

Statement Occurrence Line

Referring to Figs. 15 and 16, the Statement Occurrence Line Maintenance and Statement Presentation Occurrence screens provide options for defining and maintaining occurrence lines. Each occurrence corresponds to a telephone line or an equipment outlet. As shown in Fig. 15, the service categories may include Cable Bill, High Speed Data User, Calling Card, Circuit ID, and Phone Bill. Additional service

categories may be defined. The user may select a service category from the screen in Fig. 15 or the user may add a new service category by entering a code in the SERVICE CATEGORY CODE field as shown in Fig. 16.

Referring to Fig. 17, the Statement Presentation Occurrence screen provides further options for defining and maintaining each occurrence. First, the user may type a description up to 60-characters for a HEADER field. This header prints in the itemization segment of the statement. The user may type a description up to 60characters for a SUBTOTAL. This subtotal prints in the itemization segment of the statement. The user may type a description up to 60-characters for a FOOTER. This footer prints in the itemization segment of the statement. The user may type a description up to 60-characters for a HEADER. This header prints in the usage detail segment of the statement. The user may type a description up to 60-characters for a SUBTOTAL. This subtotal prints in the usage detail segment of the statement. The user may type a value up to 60-characters for a FOOTER. This footer prints in the usage detail segment of the statement. The user may type a font code to assign to the HEADER portion of the statement and the FOOTER portion of the statement. The user may type the offset number of spaces from the left to apply to DESCRIPTIONS. This value defines the indenting used to print descriptions on the statement. The user may type a value for the number of lines to skip BEFORE HEADER. The user may type the offset number of spaces from the right to apply to AMOUNTS. This value defines the indenting used to print amounts on the statement. The user may type a value for the number of lines to skip AFTER FOOTER.

Statement Section Codes

Referring to Fig. 18 and Fig. 19, the Statement Section and Statement

Presentation Section screens provide options for defining and maintaining Statement

Sections. First, the user may select a 3-digit SECTION CODE from the screen in Fig.

18. The user may also choose to add a new SECTION CODE by selecting the add option of the screen in Fig. 18 and entering a new code in the SECTION CODE field of the screen in Fig. 19.

Referring to Fig. 20, the Statement Presentation Section screen provides options for defining and maintaining presentation information for a Section Code. First, user may type a description up to 60-characters for a HEADER. The user may type a description up to 60-characters for a SUBTOTAL. The user may type a description up to 60-characters for a FOOTER. The user may type a font code to assign to the HEADER portion of the statement and a font code to assign to the FOOTER portion of the statement. The user may type the offset number of spaces from the left to apply to DESCRIPTIONS. This value defines the indenting used to print descriptions on the statement. The user may type the number of lines to skip in the BEFORE HEADER field. The user may type the offset number of spaces from the right to apply to AMOUNTS. This value defines the indenting used to print amounts on the statement. The user may type the number of lines to skip in the AFTER FOOTER field.

Referring to Fig. 21 and 22, the Statement Summary Lines screens provide options for defining and maintaining Summary Lines. The user may select a Summary Line or define a new one. After selecting F9=Add from the screen in Fig. 21, the user proceeds to Fig. 22. Referring to Fig. 22, first, the user may type a 3-digit code in the

SUMmary LINE code field. The user may type a description up to 60-characters in the DESCRIPTION field.

Customer Method of Payment Codes

Customer Method of Payment (MOP) codes specify the types of methods of payment that can be used. Depending on the payment method, this option determines if it is allowed in Counter Cash, if a check number is required, the length of an account number, etc. Referring to Fig. 23, the Method of Payment Maintenance screen provides options for defining and maintaining payment methods for customers. Preferably, the available options are:

- '2' to change a method of payment code;
- '3' to copy a method of payment code;
- '4' to delete a method of payment code; and

[F9] to add a new method of payment code.

If the user elects to add a new method of payment code, Fig. 24, the Customer Method of Payment Maintenance screen provides options for defining a new method. Referring to Fig. 24, the user may type a 3-digit code in the CUSTOMER METHOD OF PAYMENT CODE field. The user may type up to 35 characters for the DESCRIPTION field. The user may type a code in the PAYMENT CODE CATEGORY field. The user may type a code for the MOP PROCESSING VENDOR field. The METHOD OF PAYMENT ACCounT NumBeR REQUIRED inquiry field indicates *Yes if the MOP account number is required and *No if it is not required. Typically, it is required for direct debits and credit cards and is not required for cash, checks, money orders, and gift certificates. The user may type a value for the METHOD OF PAYMENT ACCounT

NumBeR VALIDATION field to be used to determine the method used to verify the account number is valid. Preferably, the validation method entered here is used in the Customer Method of Payments screen to validate the account number entered. For example, a Visa credit card number starts with a '4,' Master Card starts with a '5,' and an American Express number starts with a '3'. The system also uses either Modulus 10 or 11, depending on the credit card type, to check the entire account number. The user may type a value for the METHOD OF PAYMENT ACCOUNT MAXIMUM LENGTH field. The account length is used to verify that the account number entered in the Customer Method of Payments screen has the correct number of digits. In the OPeRator field, the user may type one of the following to apply to the number typed in the MAXIMUM LENGTH field:

'EQ' = equal to;

'LT' = less than; or

'LE' = less than or equal to.

The user may type a value in the METHOD OF PAYMENT ACCOUNT MINIMUM LENGTH field. This value is the minimum number of digits the account number occupies. In the OPeRator field, the user may type one of the following to apply to the number typed in the MINIMUM LENGTH field:

'GT' = greater than; or

'GE' = greater than or equal to.

Next, the user enters a value for the DEFAULT STateMenT PReSeNtation CODE field.

The user may type one of the following in the COUNTER CASH ALLOWED field:

'Y' to allow this method of payment to be used in Counter Cash; or

'N' to not allow this MOP to be used in Counter Cash. If set to 'N,' this MOP code does not display in Counter Cash.

The user may type one of the following in the CHECK NUMBER REQUIRED field:

'Y' to require a check number while in Counter Cash when using this MOP; or 'N' to not require a check number while in Counter Cash.

The user may type one of the following in the TRACK HISTORY field:

'Y' to track the history of MOP payments; or

'N' to not track the history of MOP payments.

The user may type one of the following in the PRENOTE REQUIRED field:

'Y' to create a prenote when this MOP code is assigned; or

'N' to not create a prenote for this MOP code.

Maintain Statement Presentation Codes for MOP

Referring to Fig. 25, the Maintain Statement Prsn Code for MOP screen provides options for controlling how split payments are printed on a statement. Preferably, if the default Statement Presentation Code is overridden for a Customer Method of Payment Code and if a different Statement Presentation Code is defined for each service category, a payment that is to be split among two or more different service categories prints as separate line items on the statement. If each service category points to the same Statement Presentation Code, the split payment appears as one line item on the statement. For example, John Doe's statement balance, which includes both Cable and Telephone, is \$100. Fifty dollars (\$50) of the statement is for Cable service and the remaining \$50 is for Telephone service. John Doe sends in one payment for \$100. Two payments of \$50 each (one for Cable and one for Telephone) may be printed on

the statement or one payment of \$100 may be printed on the statement. Preferably, the user has the option of pressing [F9] to assign a Statement Presentation Code to a service category/Accounts Receivable (AR) code. Referring to Fig. 25, the user may type a code in the SeRVice CaTeGory field or may add a new code by selecting F9. Preferably, the AR Code assigned to the service category entered automatically displays in the AR CODE field. Next, the user may type a Statement Presentation Code in the STateMenT PReSeNtation CODE field.

Usage Attributes

The present invention supports the grouping of transactions with Statement Presentation Codes. Accordingly, it supports the grouping of call summary with Statement Presentation Codes defined by a Plan ID and by Usage. Referring to Fig. 26, the Usage Type Maintenance screen provides options for defining and maintaining usage types. The user may type a code in the Usage Types field of the screen in Fig. 26.

Usage Types

Usage Types define the types of usage that are supported (e.g., Intrastate or Interstate Calling Cards, Local Operator Collect calls, etc.) This option may be used to maintain usage types and their carrier attributes. Referring to Fig. 27, the Usage Type Maintenance screen provides options for a defining and maintaining usage types. The user may modify values for an existing usage type or may add a new usage type. Preferably, the user may select [F9] from the screen in Fig. 26 to add a usage type. Referring to Fig. 27, the user may type a 5-character code USAGE TYPE field to add a new usage type. Referring to Fig. 29, the Usage Type Maintenance screen may be

used to further define usage types. The user may type a description of the usage up to 35 characters in the DESCRIPTION field. The user may type a code in the AR CODE field. The user may type a code in the STATEMENT PRESENTATION CODE field. The user may type a code in the TAX GROUP CODE field. The user may type general ledger number to assign to the Usage in the G/L MINOR Number field. The user may type a code in the STateMenT RATE CODE field.

Usage Plans

Usage Plans define the plans to include on the billing statement. For example, Local Direct Dial call may be used, and if defined as a Usage Plan, it is displayed on the bill. This option may be used to maintain these usage plans and their carrier overrides. Referring to Fig. 29, the Usage Plan Maintenance screen preferably, has the option [F9] to add a Usage Plan or an existing Usage Plan may be modified. Referring to Fig. 30, the Usage Plan Maintenance screen, preferably, has options as follows:

'C' to maintain carrier overrides; or

'4' to delete usage plans; and

[F9] to change plans.

The user may type a value up to 6 characters in the PLAN ID field. The user may type a description up to 35 characters in the PLAN DESCRIPTION field. The user may type a code in the STateMent PReSentation field and the user may type a value in the StateMent INDicator field. As explained earlier, the Statement Indicator indicates whether the Statement Presentation Code should be sorted within the Service Occurrence.

Usage Plan - Carrier Override

Usage Plan - Carrier Overrides are used to override the carrier's presentation code. Referring to Fig. 31, preferably, the Usage Plan – Carrier Override screen has the option F9 available to add an override or an existing Usage Plan may be modified. Referring to Fig. 32, the Usage Plan – Carrier Override screen provides additional options for defining Statement Presentation Codes to override the carrier's presentation code. The user may type an identifier in the CARRIER ID field. The user may type a code in the STateMent PRESentation code field. If the user selects F9 to add a new code, Fig. 32, the Usage Plan – Carrier Override screen provides additional options. Multiple Accounts Receivable (A/R) / Multiple Statements

The present invention supports multiple accounts receivable (A/R) and multiple statements. Customers who subscribe to more than one service category (i.e., cable, high-speed data, and telephone), preferably, have separate A/R records so that information regarding each service category may be tracked. Their accounts receivable aging is tracked for each A/R code/Service Category. Furthermore, one or more statements may be generated for a customer depending on the customer's preference. The ability to generate one statement for customers who subscribe to more than one service represents a significant improvement over the prior art.

Multiple A/R

The present invention tracks accounts receivable aging at the customer/service category/AR code level. Any service category may point to one or more A/R's.

Preferably, service categories are defined at the system level. Preferably, AR Codes are user-defined. A service definition preferably includes the service category.

Multiple Statements

With the present invention, an option is available to put cable, data, and telephone services on the same statement, on separate statements, or any combination of services on one or more statements. Statements are defined at the occurrence level, therefore, any service may be billed on more than one statement.

Statement Codes

Preferably, service categories are assigned default statement codes. These statement codes define whether multiple statements or just a single, converged statement is printed for a customer. Service categories that are assigned the same statement code print on the same statement. For example, if cable and telephone services have the same statement code of 1, then a customer who has both cable and telephone services on his or her account will have one statement. If cable service has a statement code of 1 assigned to it and telephone service has statement code of 2 assigned to it, then a customer who has both cable and telephone services will have two statements.

The number of statements a customer has may be changed by overriding the statement code default assigned to a service category. For example, Sunshine Cable may have its service categories set so all categories print on one statement. However, a customer of Sunshine Cable may decide he or she wants cable and telephone services on separate statements. Using Customer Statement Configuration options, it is possible to add a statement to the customer's account and move either the cable or telephone service category to the new statement, therefore, creating a second statement that the customer will receive; one for cable and one for telephone.

A Statement Attribute Code, preferably, has a different combination of services assigned for different customers. The attributes of each statement are defined by the Statement Attribute Code. These attributes include statement messages and the number of lines on a statement. After the Statement Attribute Codes are defined as described above, the service category or combination of service categories that will be using those statement attributes on a particular statement may be assigned.

A/R Codes

Each statement may have one or more A/R codes assigned to it depending on the services that are billed on the statement. A/R codes allow tracking of outstanding accounts receivable, aging balances, and write-offs. For example, Sunshine Cable may have its cable, high-Speed data, and telephone services billed together on customer statements. If Sunshine Cable wants to track how much of its total accounts receivable and write-offs are generated by different groupings of services, it may establish separate A/R codes for each grouping as explained above. The parameters of an A/R Code indicate late fee charges, multiple service providers, and insufficient funds charge amounts.

After defining the A/R Code, a Service Category may be linked to that A/R Code. This link or association defines the valid combinations of service category and A/R code that may be used. The same service category may be used with several A/R Codes and likewise, the same A/R Code may be used with several service categories. For example, the calling card, special circuit, and telephony Service Categories may all be used with A/R Codes such as Regulated Service and Unregulated Service. Other parameters defined for A/R codes are the PAYMENT PRIORITY and PAYMENT

PROCESS TYPE in A/R Service Categories. The PAYMENT PRIORITY, PAYMENT PROCESS TYPE, and MATCH BALANCE fields are used together to determine how the present invention applies payments to a customer's account. Preferably, this procedure is followed any time a payment is processed that is not assigned to a specific A/R Code.

In a preferred embodiment of the present invention, processing works as follows. The customer's statement is examined to see if only one A/R exists. If so, the payment applies to that A/R. If more than one A/R exists and the MATCH BALANCE field is 'Y,' then the customer's statement is checked to see if the amount of the payment matches the balance of either A/R. If so, the payment applies to the A/R with the matched balance. If they both have the same balance, then it is the A/R with the higher priority. If the MATCH BALANCE field is 'N' or the payment does not match either A/R balance, then A/R PAYMENT PRIORITY is considered. The process identifies the PAYMENT PROCESS TYPE identified in the A/R with the highest priority (lowest number value) and uses that to identify how the payment is processed. If PAYMENT PROCESS TYPE = 'R,' then the payment is applied to that A/R and any overpayment is carried forward to the next A/R according to priority. If overpayment is carried forward, payment processing follows the rule of the next A/R in priority. If PAYMENT PROCESS TYPE = 'G,' then the payment is applied to the oldest aging bucket of the A/R with the highest priority. It then applies the payment to the same aging bucket in the next A/R by priority.

For example, a customer has the following A/R:

Table 5						
A/R	1-30	31-60	61-90	PTY	PRC	

I	1	10.00	10.00	10.00	3	G
	2	15.00			1	R
	3	8.00	8.00	8.00	2	G

The customer makes a payment of \$40. The following A/R results.

Table 6

A/R	1-30	31-60	61-90	PTY	PRC
1	10.00	10.00		3	G
2				1	R
3	8.00	1.00		2	G

The present invention facilitates the production of billing statements for telephone, cable, and data services by supporting the collating, grouping, summarizing, and describing of transactions for a statement. The present invention provides a conceptual layout of a statement that provides a service provider with flexibility in producing statements for its customers. A service provider may group, summarize, and order like statement transactions for a particular service category (e.g., telephone service, cable service, and data service) so that a customer has the option of receiving one or more statements, based on his or her preference, for each service used. Although the present invention has been described in accordance with a preferred embodiment, it is understood that many modifications to the present invention may be made without departing from the scope of the present invention.

What is claimed is:

segments;

1. A method for presenting a statement comprising the steps of:

creating a plurality of segments;

creating a plurality of sections, at least one section assigned to each of said

creating at least one statement presentation code;

assigning said at least one statement presentation code to at least one of said

plurality of sections; and

producing said statement in accordance with said segments, said sections, and

said statement presentation code.

2. The method of claim 1 wherein the step of creating a statement presentation code

comprises the steps of:

assigning a summary line for adding transactions to said statement presentation

code; and

assigning to said statement presentation code a sorting indicator.

3. The method of claim 1 wherein the step of creating a plurality of segments

comprises the steps of:

creating a summary segment;

creating an itemization segment;

creating a usage detail segment; and

creating a tax segment.

4. The method of claim 3 wherein the step of creating a plurality of sections

comprises the steps of:

creating a summary line section for said summary segment;

creating a plurality of occurrence line sections for said itemization and usage detail segments; and

creating a tax line segment for said tax segment.

- The method of claim 4 further comprising the step of assigning occurrences to said occurrence line sections in said itemization and said usage details segments.
- 6. The method of claim 5 wherein said occurrences are selected from the group consisting of telephone lines and equipment outlets.
- 7. A system for configuring statements comprising:
 - a plurality of segments;
 - a plurality of sections;
 - a means for assigning at least one section to each of said segments;
 - at least one statement presentation code;
 - a means for assigning said at least one statement presentation code to at least one of said plurality of sections; and
 - a means for producing said statement in accordance with said segments, said sections, and said statement presentation code.
- 8. The system of claim 7 wherein a statement presentation code comprises: a summary line for adding transactions to said statement presentation code; and a sorting indicator.
- The system of claim 7 wherein said plurality of segments comprises:
 a summary segment;

ABSTRACT OF THE DISCLOSURE

The present invention is a system and method for producing statements that have charges for one or more service categories. The present invention enables a service provider to define which services appear on what statements for any given customer. Using the present invention, it is possible to include telephony, cable, video, and/or data services on the same statement, separate statements, or any combination of services on one or more statements.

CBDFYJR DISPLAY System Parameter Maintenance Site ID: 001

System Category

Statement Presentation

Type options, press Enter.
1=Select 6=Print Individual Category 8=Copy Site ID

? Category
Statement Attributes
Statement Attribute Assignment
Statement Presentation Codes
Statement Presentation Codes
Statement Font Codes
Statement Cocurrence Line
Statement Section Codes
Statement Section Codes
Statement Section Codes
Statement Section Codes
F3=Exit F6=Print ALL Category F15=Menu

Fig. Z

Fig. 3

```
DISPLAY
                            Statement Attribute Code Maintenance
                                                                                    Site ID :
  Statement Attribute Code
Type options, press Enter.
2=Change 3=Copy 4=Delete
   Statement
    Attribute
                 Description
                 CABLE SERVICE
111111111111
                 DIGITAL CABLE MODEM PURCHASE ABCOHOME
                 ABC@HOME
    AA
CC
DD
EE
AAX
                 ABCHOOME
CABLE SERVICE
HIGH SPEED DATA
DIGITAL CABLE MODEM PURCHASE
                 ABCOHOME
THIS IS A TEST
   A1
A2
CCC
                 NANE
                 DEFAULT (BILL DESC O)
                                                                                               More...
             F9=Add F15=Menu
F3=Exit
```

```
CXELAJR
           CHANGE Statement Attribute Code Maintenance 1 Site ID :
                                                                      001
Statement Attribute Code CAB
Statement Attribute Desc CABLE ACCOUNTS
                                     Per Statement __1
Statement Threshold Number of Lines:
                                                             Per Page __1
     Include the following in Line Count (Y/N):

Summary N Itemization N Billing Message N Taxes N Usage Detail N Statement Text N
Output Taxes by Service Category . . . . . . . . . . . . . . . .
                                                                  N (Y/N)
                                                                  <u>N</u> (Y/N)
(A/X)
                                                                  A (A/C/X)
Previous Balance Stmt Presentation Code . . . . . . . . . . . . . . .
                                                                  350
Bucket number to start from when calculating past due amount . .
                                                                  1 (1-6)
                                                                   More...
F3=Exit F15=Menu
```

CXPVAKR	ENTER	Statement .	Attribute	Maintenance	2 S	ite ID	1	001
		Code : 5 Desc Telepho						
Print if	the custome	nts (Balance r's status in regardless of	dicates to					
Do Not pr	int stateme	ts (Balance >: nts with a del regardless of	oit balanc					(Y/N)
Should be	producted	e, accounts wi for All custor or Non-monthly	mers				N	(Y/N) (Y/N)
							Mos	re.
F3=Exit	F15≖Menu							

Fig. 5

CXPVAMR ENTER Statement Attribute Ma	untenance 3 Site ID : 001
Statement Attribute Code CAB	
Statement Attribute Desc CABLE ACCOUNTS	
Description to print in the statement for:	ľ
Previous month's balance	
	ŀ
First Statement	
Subsequent Statements	
Payments	
Pull Payment	
Partial Payment	
Deposit Payment	
Services without a description	
Married Durante Description	
Merged Prorate Description	
First Statement	
Subsequent Statements	
	More
F3=Exit F15=Menu	WOIE
tarate transfer	

```
CXEFEXR CHANGE Statement Attribute Assignment Maintenance Site ID: 001

Service Cat Combo:

Stmt
Attr Service Category Combo

CD
CD
CDL
CDLS
CDLST
CDLST
CDST
CDST
CDST
CDT
CLS
CLS
CLS
CLS
CLS
CLS
CLS
CLS
CLS
CST
CST
CST
CST
CST
CMORE
More...
```

Fig. 8'

```
CBDFNAR
            DISPLAY
                        Statement Presentation Code Maintenance Site ID :
  Presentation Code _
Type options, press Enter.
2=Change 3=Copy 4=Delete P=Paragraph
? Prstn Presentation
    Code
            Description
            CABLE SERVICE
            DIGITAL CABLE MODEM PURCHASE
           ABC@HOME
ABC@HOME
CABLE SERVICE
HIGH SPEED DATA
    AA
CC
    DD
EE
           DIGITAL CABLE MODEM PURCHASE ABCOHOME
           NAME
DEFAULT (BILL DESC Q)
   A1
CCC
                                                                                     More...
          F9=Add F15=Menu
F3=Exit
```

```
CXELHDR
                                  Statement Presentation Code
                                                                                Site ID : 001
 Stmt Presentation Code . : SLG
 Header
Subtotal _
 Footer
 Section Code ____
Summary Line ___
 Sort Within Occurrence _ If No, Sort Occurrence Ctg/Seq# _ ___
                                                               Print Usage Detail Flag N
Discount/Retail for Usage D
 Stmt Presentation for Prorates . .
 Font Codes: Header
               Detail __
               Footer _
 Offset Spaces: Descriptions (from left) ___ Lines to Skip: Before Header _ Amounts (from right) . ___ After Footer _
 F3=Exit F15=Menu F18=Paragraph
```

Statement Presentation Code Maintenance 1 Site ID : Presentation Code . . .: 009
Presentation Description . Billing descriptions to use on the bills and ledger _ (M/P/R/S/Q/G) M/P/Q/R/S/G Print zero rated primary services? Q/R/S/G Q/R/S/G Itemize additional outlet charges? Print zero rated additional outlet counts . Print additional rates for services _ (Y/N) _ (Y/N) _ (Y/N) Q/R/G Q/G Q/R/G Print summary lines after paragraph exit line? _ (Y/N) More... F3=Exit F15=Menu

Fig. 11,

Fig. 12

CBE3M7R Statement Presentation Code Maintenance 2 Site ID : 001 009 Presentation Description : O/R/G Number of Matrix Description Lines to Print P/Q/R/G P/Q/R/G Intro Line Exit Line Q/R/G Summary lines to print after the paragraph exit line. Q/R/G Alternate summary line if no applicable discount. More... F3=Exit F15=Menu

CBE3M7R	ADD	Statement Presentation Code Maintenance 3 Site II	: 001
	tion Code tion Descr		
Q/R/S/G	Additiona Paragraph	al outlet descriptions for premium services.	· · · · · · · · · · · · · · · ·
Q/R/S/G	Additiona Paragraph	al outlet descriptions for auxiliary services. Detail	
F3=Exit	P15=Menu		Bottom

CXEFGRR CHANGE Statement Font Code Maintenance Site ID: 001

Font Code .

Type options, press Enter.
4=Delete

? Font
Code Description
B Bold
BI Bold. Italics
BI Bold. Large
I Italic
Underline
Un Underline
Underline
F3=Exit F9=Add F15=Menu

Fig. 14

Fig. 15

```
CXDFGTR DISPLAY Statement Occurrence Line Maintenance Site ID: 001

Service Category

Type options, press Enter.
2=Change 4=Delete

Svc
? Ctg Itemization Header
_ C Cable Bill
_ D High Speed Data User
_ L Calling Card # &L
_ S Circuit ID &I
_ T Phone Bill

F3=Exit F9=Add F15=Menu
```

```
CXEIGWR ADD Statement Presentation Occurrence Site ID : 001
Service Category Code . _

F3=Exit F15=Menu
```

CXE1GWR CHANGE Statement Presentation Occurrence Site ID : 001 Service Category Code . : C Cable Itemization Segment Header <u>Cable Bill</u> Subtotal Footer Usage Detail Segment Header Subtotal Footer Font Codes: Header Footer ffset Number of Spaces:
Descriptions (from left) Number of Lines to Skip: Offset Number of Spaces: Before Header _ After Footer F3=Exit F15=Menu

Fig. 17

Fig. 18

CXDFGYR DISPLAY Statement Section Maintenance Site ID: 001

Section Code

Type options, press Enter.
2-Change 3-Copy 4-Delete

? Section
 Code Header Description
 1 Statement Payments & Adjustments
 101 Telephone Services
 201 Video Services
 301 High Speed Data Services

F3-Exit F9-Add F15-Menu

Fig. 19

I	CXE1GZR	ADD	Statement	Presentation	Section	Site	ID	1	001
ı	Section	Code .							
L	F3=Exit	F15=Mei	กน						

CXEFHFR CHANGE Statement Summary Lines Site ID : 001

Summary Line Number .

Type options, press Enter.
4=Delete

? Sum Section Code
Line Description Code
_ 3 Cable 101
_ 7 Telephone 7
_ 123 High Speed Data 66
_ 124 Special Circuits 1
_ 888 Calling Cards 1

F3=Exit F9=Add F15=Menu

Fig. ZI

Fig. 22

CXE	FHFR	ADD	Statement	Summary	Lines	Site	ID	: 001
Тут 4=0	pe opti Delete	ons, press l	Inter.					
?	Şum							Section
	Line	Description	n					Code
_								
_			· · · · · · · · · · · · · · · · · · ·					_
_								
-					···-			_
					·			
F3=	Exit	F9=Change	P15-Manu					

CB	DFNIR	DISPLAY	Ж	ethod	Of	Payment	Maintenance	
H						•		
Cal	1 Cent	er Grouping	Code :	01				
Me	thod c	of Payment Co	ode					
1				_				
TY	pe opt	ions, press	Enter.					
	Change		4=Delete					
?								
?	Code	Description	1					
	1	CASH						
-	2	CHECK						
_	3	MONEY ORDER	1					
-	5	LOCKBOX						
_	7	DIRECT DEBI	т					
ı –	8	GIFT CERTIF	ICATE					
_	10	MASTERCARD						
_	11	VISA-13						
_	12	DISCOVER						
_	14	VISA-16						
_								
F3=	Exit	F9=Add F	15=Menu					

Fig. 24

Fig. 25

```
XEFKTR CHANGE Maintain Stmt Pran Code for MOP
Site 215 MOP Code 2
                                                                Site ID :
                                                                               001
Type options, press Enter. 4=Delete
? Srv
         AR
                  Stmt
                         Stat
         Code
   Ctg
                  Prsn
                         Presentation Desc
   2
                         CABLE SERVICE
                  CAB
                  TEL
                         TELEPHONE SERVICE
                                                                          More...
F3=Exit F9=Add F15=Menu
```

CXDFA3R Usage Ty	DISPLAY Usage Type Maintenance ype	1	s	ite ID	: 001
	ions, press Enter. r Attr 2=Change 4=Delete				
Usage		Stmt	Stmt	AR	G/L
? Type	Description	Pres	Code		Minor
_ 00001	Local Call - Direct Dial	605	DD	3	789
_ 00002		605	CC	3	791
_ 00003		605	PP	3	795
_ 00004		605	CC	3	795
_ 00005		605	SN	3	789
_ 00006		605	SN	3	789
_ 00007		625	DD	3	775
_ 00008		625	CC	3	796
_ 00009		625	PP	3	792
_ 00010		625	CC	3	792
00011		625	SN	3	775
_ 00012	Intrastate Op Station-to-Station	625	SN	3	792
F3=Exit	F9=Add F15=Menu				

CXE1KMR ADD	Usage	Type	Maintenance	Site	ID :	001
Usage Type _	· V					
F3=Exit F15=N	1enu					

Fig. 27

CXE1KMR ADD	Usage Type Maintenance	Site ID : 001
Usage Type TEST1 Description	***************************************	
AR Code		
Presentation Code		
Tax Group Code		:
G/L Minor Nbr .		
Stmt Rate Code	***	
P3=Exit F15=Menu		

Fig. 29

CXEFLCR Usage I	CHANGE Plan ID .	Usage Plan Maintenance	Site II	;	001
	ions, press Ente er Override 4=De				
? Plan ID _ 00099 _ 12345	Plan Description <u>Direct Dial - L</u> <u>Direct Dial - L</u>				
F3 ≠Exit	F9=Add F15=M	enu		В	ottom

Fig. 30

CXEFLCR	ADD	Usage Plan Maintenance	Site ID : 001
Type opt C=Carrie	ions, press Enter. r Override 4=Delete		
? Plan ID	Plan Description		Stm Stm Prs Ind
=			
F3=Exit	F9=Change F15=Men	บ	More

٠.

- \$

Fig. 3	32
--------	----

CXEFLIR	ADD	Usage	Plan -	Carrier	Override	Site ID	: 001
Plan 5							
Type opti 4=Delete	ons, press Ent	er.					
? Carrie	r Carrier Description	ı			Stmt Pres		
							More
F3=Exit	P9=Change P	15=Menu					

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